

# 2000a Series

Frequency-agile True Diversity UHF Wireless Systems



Audio-Technica's second generation of the well known 2000 Series now offers increased RF power on both the handheld and beltpack transmitters for increased link stability. Charging contacts on the transmitters allow easy operation with rechargeable batteries. The new ATW-R2100a receiver benefits from the latest Audio-Technica 1/2 wave antenna technology (depends on the frequency range) to maximise range. The 12VDC bias voltage on both BNC antenna inputs allows operation with the ATW-B80 antenna booster or other active components. With this breakthrough series, Audio-Technica makes easy setup, automatic scanning and other advanced wireless features affordable as never before. Automatic frequency scanning—standard on all 2000a Series wireless receivers—finds and sets the best available channel at the touch of a button. For those using multiple wireless systems simultaneously, the 2000a Series offers another ease-of-use feature: any of its 10 channels may be used together—eliminating confusing frequency groups and other frequency-coordination problems.

RRP – See catalogue page

**Following frequency bands will be available in Europe:**

D-Band:	655.500 – 680.375 MHz – T.B.C
E-Band:	795.500 – 820.000 MHz – May 2010
F-Band:	840.125 – 864.875 MHz – May 2010
G-Band:	721.500 – 746.375 MHz – T.B.C
I-Band:	482.000 – 507.000 MHz – T.B.C



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## Changes on the new system:

	Current system	New system
Receiver	ATW-R2100	ATW-R2100a
<b>Antenna power 12V</b>		2x 12V, 60mA
This offers to drive ATW-B80 or other active components through the antenna cable	-	
<b>Improved tone lock squelch</b>		Already incorporated on a running change basis YES
There had been reports of drop outs due to the tone lock squelch being harmed by highly distorted input signals (guitar). The improvement does fix this.		
<b>Increased output level:</b>		
Especially for installation a higher output level will be beneficial.		
The new ATW-R2100a has a switch to select the output level.	-2dBV max.	-2dBV / +9dBV switch
Beltpack transmitter	ATW-T210	ATW-T210a
<b>High RF power option</b>		
The higher output gives you a better range especially when body worn.		
Important to make the recent 1600-series customers (10mW / 20mW) happy to switch to the 2000-series.	10mW	10mW / 30mW
<b>Charging contacts</b>		
We will have a dedicated charging station for the 2000-series systems transmitters to charge NiMH inside the transmitters.	-	Yes
<b>Improved belt clip</b>		
The beltclip will be improved for better durability	-	Yes
Handheld transmitter	ATW-T220	ATW-T220a
<b>High RF power option</b>		
The higher output gives you a better range. This could be interesting for the current 1600-series users as there is no high RF power option on the handheld	10mW	10mW / 30mW
<b>Charging contacts</b>		
We will have a dedicated charging station for the 2000-series systems transmitters to charge NiMH inside the transmitters.	-	Yes
<b>Aesthetic treatment</b>		
We removed the transparent ring from the handheld and in addition altered the shape of the grip a little bit to look more slim (Please see attached pictures)	-	Yes

### Important information concerning the F-Band frequency plan:

The NEW F-Band item will have a new frequencyplan.

#### Why is this important to know?

This means for the customer that he CANNOT cross use OLD F-Band 2000-series and new 2000-series in F-Band.

Old transmitters will not operate with new receivers – old receivers will not operate with new transmitters.

The negative impact of this is probably very minor as many customers use the 2000-series as a given set and is not mixing them up.

#### Why did we change the plan?

The old F-band plan does have some disadvantages. The new plan solves this and makes it possible, that FOUR channels of the F-Band 2000-series can be operated even after the switch off of the frequency range 790 – 862 MHz in 2015 (latest). This should be used TODAY to sell the 2000-series F-Band for customers with the need of just a few channels <= 4 channels.

#### What will be the new plan?

1	863,100	der.
2	863,500	der.
3	864,100	der.
4	864,900	der.
5	854,900	69
6	855,275	69
7	855,900	69
8	856,175	69
9	858,200	69
10	861,750	69



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